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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.
HELENA, MONTANA

Vol. XIV, No. 12 — 3 — December 1966

Production of crude oil and condensate from the oil and gas areas of Montana for the month of December, 1966, averaged 98,411 barrels daily, an increase of 2,757 barrels from the average November production of 95,654.

The nine refineries in state processed 105,720 barrels of crude oil daily for the month of December, 1966, an increase of 16,916 barrels from the 88,804 barrels processed daily during the month of November, 1966.

During December, 54 wells were completed, 11 oil, 0 gas well and 43 dry holes.

During December, the commission issued 32 permits to drill new wells, a decrease of 16 from the 48 permits issued during November.

SUMMARY OF CRUDE OIL PRODUCTION REFINING STORAGE, ETC., IN MONTANA

MONTH OF DECEMBER, 1966

IN STORAGE DECEMBER 1st	
By Producers	335,137
By Transporters	935,833
By Refiners	551,335
TOTAL STORAGE	1,822,305
Produced in Montana During Month	3,050,753
Imported During Month	2,393,633
TOTALS	7,266,691
DISPOSITION:	
Refined in Montana	3,277,345
Exported	2,019,844
Used for Fuel or Lost	13,001
TOTAL	5,310,190
IN STORAGE DECEMBER 31st	
By Producers	337,546
By Transporters	1,034,375
By Refiners	584,580
TOTAL STORAGE	1,956,501

NATURAL GAS WITHDRAWALS IN MONTANA

Month of December, 1966

Field	M. Cu. Ft.
Bears Den	0
Big Coulee	117,957
Bowdoin	282,295
Bowes	52,417
Cabin Creek	112,261
Cedar Creek	450,631
Cut Bank (Including Reagan)	813,538
Devon	0
Dry Creek	90,063
Elk Basin	130,014
Flat Coulee	9,499
Gold Butte	0
Golden Dome	0
Grandview	0
Hardin	2,835
Keith Block	454,287
Kevin Sunburst	70,649
Lake Basin	109,990
Middle Butte	5,723
Mt. Lilly	24,329
Pine	66,632
Plevna	13,433
Utopia	141,923
Whitlash	161,787
Miscellaneous	150,176
TOTAL	3,260,439

Total withdrawals for December, 1965 were 3,062,148 M Cu. Ft.

PRODUCERS REPORT—MONTH OF DECEMBER, 1966

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By: Pipeline	Oil Shipped By: Truck	Used or Lost	Storage End of Month
2	Ash Creek	5	617	5,570	.....	5,776	.....	411
1	Bannatyne	1	1,323	551	.....	388	.....	1,185
1	Bascom	1	192	115	104	.....	.....	201
6	Bear's Den	6	1,991	1,586	.....	2,509	.....	1,068
1	Benrud	1	465	1,896	1,989	.....	.....	372
1	Benrud East	1	466	8,687	8,690	.....	.....	463
2	Benrud Northeast	2	1,418	16,396	16,923	.....	.....	891
....	Berthelote	....	173	.....	.....	.....	.....	173
7	Big Wall	23	1,550	18,894	18,103	.....	.....	2,341
5	Blackfoot	8	3,054	3,408	1,208	2,409	.....	2,845
....	Blackfoot East	....	214	.....	.....	.....	.....	214
2	Border	4	.....	2,082	.....	2,082	.....	.....
1	Bowes	58	5,868	16,363	16,388	.....	.....	5,843
2	Bradley	2	826	980	972	.....	.....	834
1	Brady	1	296	204	204	.....	.....	296
....	Bynum	....	75	.....	.....	.....	.....	75
2	Cabin Creek	101	6,093	271,603	271,399	.....	176	6,121
16	Cat Creek	88	3,970	14,124	10,030	5,654	72	2,338
....	Clark's Fork	....	30	.....	.....	.....	.....	30
1	Conrad South	2	663	800	801	.....	.....	662
1	Cupton	1	1,250	318	.....	417	.....	1,151
183	Cut Bank	983	99,259	266,929	261,068	6,848	961	97,311
2	Deer Creek	3	1,051	2,662	2,326	.....	.....	1,387
1	Delphia	1	341	405	.....	307	.....	439
1	Devil's Basin	1	726	125	.....	.....	.....	851
1	Dry Creek	1	45	24	.....	.....	.....	69
14	Dwyer	15	5,690	25,187	25,851	.....	.....	5,026
3	Elk Basin	54	1,277	238,699	238,352	.....	71	1,553
5	Elk Basin Northwest	13	3,093	15,835	16,685	.....	.....	2,243
2	Fairview	2	780	21,553	.....	21,271	.....	1,062
3	Fertile Prairie	3	610	1,698	.....	1,257	.....	1,051
24	Flat Coulee	31	4,408	18,422	17,961	.....	.....	4,869
35	Flat Lake	52	7,083	112,409	112,284	.....	.....	7,208
1	Flat Lake South	1	1,019	685	1,250	.....	.....	454
2	Frannie	2	.....	1,249	1,249	.....	.....	.....
17	Fred & George Creek	42	2,562	122,920	122,390	.....	.....	3,092
1	Gage	1	334	241	.....	.....	.....	575
1	Gage Southwest	1	486	425	.....	531	.....	380
4	Gas City	30	5,837	41,779	38,266	457	.....	8,893
9	Glendive	15	3,805	32,943	21,522	10,106	.....	5,120
19	Goose Lake	23	3,274	60,963	60,449	.....	220	3,568
9	Graben Coulee	30	6,044	20,848	20,108	1,824	.....	4,960
....	Grandview	....	112	.....	.....	.....	112	.....
....	Gypsy Basin	....	2,375	1,301	.....	782	.....	2,894
1	Hibbard	1	551	324	.....	.....	.....	875
7	Ivanhoe	11	1,916	12,479	12,297	.....	122	1,976
10	Keg Coulee	28	5,806	25,506	25,746	.....	573	4,993
2	Keg Coulee North	2	738	1,682	1,825	.....	.....	595
1	Kelley	1	693	5,027	.....	4,108	.....	1,612
113	Kevin Sunburst	715	17,872	35,155	32,873	1,518	84	18,552
3	Little Beaver	30	1,301	36,737	36,976	.....	.....	1,062
2	Little Beaver East	13	3,027	23,507	24,866	.....	.....	1,668
3	Lodge Grass	3	1,491	4,408	.....	4,868	.....	1,031
25	Lookout Butte	81	4,592	344,551	344,608	.....	682	3,853
....	Mackay Dome	....	770	.....	.....	.....	.....	770
2	Mason Lake	2	610	2,770	2,635	.....	.....	745
2	Melstone	5	1,176	2,805	3,196	.....	.....	785
1	Mineral Bench	1	489	1,782	1,835	.....	.....	436
2	Miner's Coulee	2	201	3,559	.....	3,391	.....	369
7	Monarch	12	4,018	14,792	13,596	.....	.....	5,214
3	Mosser	3	.....	590	.....	590	.....	.....
7	Outlook	12	7,897	36,269	37,333	.....	.....	6,833
2	Outlook South	2	1,272	2,423	2,549	.....	.....	1,146
70	Pennel	117	5,002	179,364	178,445	.....	.....	5,921
4	Pine	129	17,335	337,539	336,796	.....	1,068	17,010
3	Pole Creek	4	1,408	592	.....	1,020	.....	980
70	Pondera	307	7,701	29,017	29,221	.....	.....	7,497
....	Pondera Coulee	....	.....	(443)	(443)	.....	.....	.....
4	Poplar East	71	8,093	68,433	69,187	.....	74	7,265
4	Poplar Northwest	5	2,591	1,962	3,200	.....	.....	1,353
1	Prairie Elk	1	799	200	200	.....	.....	799
4	Ragged Point	13	2,603	12,616	12,572	.....	.....	2,647
4	Ranch Creek	4	1,270	2,785	.....	3,142	2	911
1	Rattlesnake Coulee	1	237	1,221	782	.....	.....	676
4	Reagan	42	1,155	19,182	19,298	.....	.....	1,039
1	Red Creek	27	.....	25,803	25,450	353	.....	.....
1	Redstone	1	323	975	775	.....	.....	523
1	Repeat	1	260	1,517	.....	1,445	.....	332
1	Reserve	1	2,307	10,397	.....	10,130	.....	2,574
1	Richey	1	1,182	384	.....	329	467	770
6	Richey Southwest	8	591	10,517	.....	10,125	.....	983
4	Sand Creek	5	.....	6,504	6,504	.....	.....	.....
1	Shotgun Creek	1	318	858	.....	1,005	.....	171
3	Sidney-Brorson	3	1,515	2,269	.....	2,356	238	1,190
1	Snyder	3	1,199	496	.....	541	.....	1,154
5	Soap Creek	18	1,259	6,997	.....	5,786	.....	2,470
1	Spring Lake	2	4,773	4,146	.....	4,146	.....	4,773
2	Stensvad	24	3,229	36,367	36,052	.....	.....	3,544
30	Sumatra	82	9,385	62,376	59,363	.....	.....	12,398
5	Tule Creek	7	2,674	38,550	.....	38,691	.....	2,533
2	Tule Creek East	2	279	23,209	.....	23,188	.....	300
2	Tule Creek South	2	1,125	9,555	9,727	.....	.....	953
2	Vida	2	330	2,405	.....	1,957	.....	778
4	Volt	6	2,324	22,765	23,377	.....	.....	1,712
5	Weldon	16	866	154,625	154,143	.....	.....	1,348
17	Whitlash	43	8,104	25,088	24,031	.....	.....	9,161
2	Whitlash West	2	806	1,392	1,596	.....	.....	602
2	Wills Creek South	2	1,081	8,652	8,683	.....	.....	1,050
9	Wolf Springs	12	4,517	27,628	26,736	.....	.....	5,409
4	Woodrow	5	729	4,397	4,314	.....	.....	812
1	Wildcat, Glacier County	1	245	319	.....	465	.....	99
....	Wildcat, Liberty County	....	528	.....	.....	.....	.....	528
1	Wildcat, Richland County	1	1,097	2,872	.....	2,410	.....	1,559
1	Wildcat, Roosevelt County	1	318	300	.....	494	.....	124
1	Wildcat, Sheridan County	1	414	1,679	.....	1,830	.....	263
867	Total	3,507	335,137	3,050,753	2,856,916	186,506	4,922	337,546

Total Oil Produced and Shipped From Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1965	32,778,118	89,803	32,787,648	89,829
First Quarter, 1966	8,617,148	95,746	8,589,395	95,437
Second Quarter, 1966	8,949,646	98,347	8,979,056	98,670
Third Quarter, 1966	8,951,989	97,304	8,948,815	97,270
October, 1966	2,940,941	94,869	2,929,338	94,494
November, 1966	2,869,641	95,654	2,863,647	95,454
December, 1966	3,050,753	98,411	3,043,422	98,174

Oil in Storage	In Producers Field Tank	In Transporters Storage	In Refiners Storage*	Total Oil in Storage*
December, 1965	331,221	946,634	498,990	1,776,845
March, 1966	347,070	1,048,199	675,920	2,071,189
June, 1966	348,155	1,132,300	706,521	2,185,176
September, 1966	335,753	1,033,165	580,952	1,939,670
October, 1966	334,877	930,692	628,251	1,893,820
November, 1966	335,137	935,833	551,335	1,822,305
December, 1966	337,546	1,034,375	584,580	1,956,501

*Includes Wyoming Oil

TRANSPORTERS MONTHLY REPORT—MONTH OF DECEMBER, 1966

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck	.....	.....	5,776	.....	.....	.....	5,776	.....	.....
BANNATYNE—Truck	.....	.....	388	.....	.....	.....	388	.....	.....
BEAR'S DEN—Truck	.....	.....	2,509	.....	.....	.....	2,509	.....	.....
BIG WALL—Transcontinental Pipeline Co.	.....	18,104	.....	.....	.....	18,104	.....	.....	.....
BLACKFOOT—									
Camerland Cardinal Corp.	.....	.....	2,409	.....	.....	2,409	.....	.....	.....
Union Oil Co.	.....	1,208	.....	.....	.....	1,208	.....	.....	.....
	.....	1,208	2,409	.....	.....	3,617	.....	.....	.....
BORDER—Truck	.....	.....	2,082	.....	.....	.....	2,082	.....	.....
BOWES—Texaco	.....	16,388	.....	.....	.....	16,388	.....	.....	.....
CABIN CREEK & OTHERS*									
Butte Pipeline Co.	312,545	856,072	26,093	830,895	.....	.....	1,658,124	.....	367,481
Shell Pipeline Co.	5,484	356,717	.....	.....	(2,624)	.....	.....	358,796	6,029
	318,029	1,212,789	26,093	830,895	(2,624)	.....	1,658,124	358,796	373,510
CAT CREEK—									
Continental Pipeline Co.	.....	10,742	.....	.....	.....	10,742	.....	.....	.....
Truck	.....	.....	5,654	.....	.....	5,654	.....	.....	.....
	.....	10,742	5,654	.....	.....	16,396	.....	.....	.....
CUT BANK—									
Continental Pipeline Co.	.....	.....	14,716	629,560	.....	644,276	.....	.....	.....
Phillips Petroleum Co.	16,707	61,912	.....	72,029	306	90,845	.....	.....	59,497
Texas Pipeline Co.	19,705	75,772	.....	29,755	287	.....	.....	100,689	24,256
Union Oil Co.	65,561	98,280	.....	12,014	(1,617)	109,923	.....	.....	67,549
Western Oil Trans. Co.	14,209	46,680	.....	100,231	467	.....	.....	131,669	28,984
Western Oil Trans. (Moulton)	.....	75,051	.....	.....	751	.....	.....	74,300	.....
	116,182	357,695	14,716	843,589	194	845,044	.....	306,658	180,286
DELPHIA—Truck	.....	.....	307	.....	.....	307	.....	.....	.....
DWYER—Portal Pipeline Co.	.....	25,453	.....	.....	.....	.....	25,453	.....	.....
ELK BASIN & ELK BASIN NORTH-WEST—Marathon Pipeliine Co.	.....	251,933	.....	.....	.....	251,933	.....	.....	.....
FAIRVIEW—									
Rock Island Oil & Ref. Co.	.....	.....	21,271	.....	.....	.....	21,271	.....	.....
FLAT COULEE—									
Camerland Cardinal Corp.	.....	17,146	.....	.....	.....	15,238	.....	1,908	.....
FLAT LAKE & FLAT LAKE SOUTH—									
Portal Pipeline Co.	.....	102,189	.....	.....	.....	.....	102,189	.....	.....
FRANNIE—Interstate Pipeline Co.	.....	1,249	.....	.....	.....	.....	1,249	.....	.....
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	10,264	104,721	.....	.....	.....	34,807	.....	56,452	23,726
GAGE & GAGE S. W.—Truck	.....	.....	531	.....	.....	531	.....	.....	.....
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	7,955	38,727	.....	.....	(1,353)	.....	.....	39,089	8,946
GOOSE LAKE—Portal Pipeline Co.	.....	51,158	.....	.....	.....	.....	51,158	.....	.....
IVANHOE—Continental Pipeline Co.	.....	12,332	.....	.....	.....	12,332	.....	.....	.....
KEG COULEE & KEG COULEE NORTH—Continental Pipeline Co.	.....	28,807	.....	.....	.....	13,039	15,768	.....	.....
KELLEY—Truck	.....	.....	4,108	.....	.....	.....	4,108	.....	.....
KEVIN SUNBURST—									
Big West Oil Co.	4,669	26,767	.....	.....	(4,070)	30,267	.....	313	4,926
Homestake Oil & Gas Co.	1,979	2,325	.....	6,000	.....	8,325	.....	.....	1,979
Texas Pipeline Co.	13,384	10,308	.....	.....	200	.....	.....	11,008	12,484
	20,032	39,400	.....	6,000	(3,870)	38,592	.....	11,321	19,389
LODGE GRASS—McWood Corp.	.....	.....	4,868	.....	.....	4,868	.....	.....	.....
MASON LAKE—Continental Pipeline Co.	.....	2,635	.....	.....	.....	2,635	.....	.....	.....
MELSTONE—Continental Pipeline Co.	.....	3,196	.....	.....	.....	3,196	.....	.....	.....
MOSSER—Truck	.....	.....	590	.....	.....	.....	590	.....	.....
POLE CREEK—Truck	.....	.....	1,020	.....	.....	.....	1,020	.....	.....
PONDERA—Phillips Petroleum Co.	47,465	30,245	.....	.....	1,836	45,837	.....	.....	30,037
POPLAR, BENRUD, BENRUD EAST, OUTLOOK, OUTLOOK SOUTH, RED-STONE, RICHEY, TULE CREEK, TULE CREEK SOUTH & VOLT—									
East Poplar Gathering System	16,961	206,455	.....	.....	1,286	.....	.....	191,902†	30,228
RAGGED POINT—									
Continental Pipeline Co.	.....	9,920	.....	.....	.....	727	9,193	.....	.....
RANCH CREEK—									
Rock Island Oil & Refining Co.	.....	.....	3,142	.....	.....	.....	3,142	.....	.....
RED CREEK—									
Western Oil Transportation Co.	.....	26,192	.....	.....	261	.....	.....	25,931	.....
RESERVE—Truck	.....	.....	10,130	.....	.....	.....	10,130	.....	.....
SHOTGUN CREEK—Truck	.....	.....	1,005	.....	.....	.....	1,005	.....	.....
SIDNEY-BRORSON—McWood Corp.	4,392	.....	2,356	7,613	(779)	.....	.....	.....	15,140
SNYDER—Truck	.....	.....	541	.....	.....	541	.....	.....	.....
SOAP CREEK—McWood Corp.	3,698	.....	5,786	2,982	.....	8,930	.....	.....	3,536
SPRING LAKE—									
Rock Island Oil & Refining Co.	.....	.....	4,146	.....	.....	.....	4,146	.....	.....
SUMATRA & STENSVAD—									
Continental Pipeline Co.	379,375	96,595	.....	92,730	8,656	78,577	13,356	130,897	337,211
TULE CREEK—Tesoro Petr. Corp.	11,480	.....	61,879	.....	.....	60,996	.....	.....	12,363
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.	.....	23,983	.....	.....	.....	23,983	.....	.....	.....
WOLF SPRINGS—									
Continental Pipeline Co.	.....	20,876	.....	.....	.....	20,876	.....	.....	.....
WILDCAT WELLS—Truck	.....	.....	5,199	.....	.....	.....	5,199	.....	.....
TOTALS	935,833	2,710,138	186,506	1,782,809	3,607	1,517,494	1,937,856	1,122,954	1,034,375

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat, Richey, Richey Southwest, Weldon and Wills Creek South.

†Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA

MONTH OF DECEMBER, 1966

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Tesoro Petr. Corp.	Union Oil Co.	Total
Big Wall	.....	.....	.....	18,104	.....	.....	.....	.....	.....	18,104
Cat Creek	.....	10,742	.....	4,411	.....	1,702	.....	.....	.....	16,855
Cut Bank	.....	.....	.....	3,100	18,855	20	72,526	.....	114,408	208,909
Delphia	.....	.....	.....	.....	.....	150	.....	.....	.....	150
Dry Creek	.....	.....	.....	.....	.....	5	.....	.....	.....	5
Elk Basin	.....	101,228	.....	62,895	87,809	.....	.....	.....	.....	251,932
Fred & George Creek	34,807	.....	.....	.....	.....	.....	.....	.....	.....	34,807
Gage & Gage S. W.	.....	.....	.....	.....	.....	289	.....	.....	.....	289
Hibbard	.....	.....	.....	.....	.....	39	.....	.....	.....	39
Ivanhoe	.....	.....	.....	.....	12,332	.....	.....	.....	.....	12,332
Keg Coulee	.....	1,825	.....	11,214	.....	.....	.....	.....	.....	13,039
Kevin Sunburst	27,149	.....	.....	.....	.....	.....	.....	.....	.....	27,149
Lodge Grass	.....	4,868	.....	.....	.....	.....	.....	.....	.....	4,868
Mason Lake	.....	2,635	.....	.....	.....	.....	.....	.....	.....	2,635
Melstone	.....	.....	.....	3,196	.....	.....	.....	.....	.....	3,196
Pondera	.....	.....	.....	.....	.....	.....	45,837	.....	.....	45,837
Ragged Point	.....	727	.....	.....	.....	.....	.....	.....	.....	727
Red Creek	.....	.....	.....	.....	25,450	.....	.....	.....	.....	25,450
Sand Creek	.....	.....	.....	.....	.....	109	.....	.....	.....	109
Snyder	.....	541	.....	.....	.....	.....	.....	.....	.....	541
Soap Creek	.....	8,930	.....	.....	.....	.....	.....	.....	.....	8,930
Sumatra & Stensvad	.....	17,642	.....	60,935	14,545	.....	.....	.....	.....	93,122
Tule Creek	.....	.....	.....	.....	.....	.....	.....	63,813	.....	63,813
Whitlash	23,983	.....	.....	.....	.....	.....	.....	.....	.....	23,983
Wolf Springs	.....	.....	.....	.....	26,891	.....	.....	.....	.....	26,891
Total Montana Oil	85,939	149,138	.....	163,855	185,882	2,314	118,363	63,813	114,408	883,712
Canadian Oil Imported	.....	642,432	.....	.....	.....	.....	.....	.....	.....	642,432
Wyoming Oil Imported	.....	449,373	.....	450,895	850,933	.....	.....	.....	.....	1,751,201
Total Montana, Canadian and Wyoming Oil	85,939	1,240,943	.....	614,750	1,036,815	2,314	118,363	63,813	114,408	3,277,345

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1965	32,792	12,751	44,980	90,523
December, 1965	33,104	15,010	45,131	93,245
December, 1966	28,506	20,724	56,490	105,720

PERCENTAGE OF CRUDE OIL REFINED

	Montana	Canada	Wyoming
Year, 1965	36.22%	14.10%	49.68%
December, 1965	35.50%	16.10%	48.40%
December, 1966	26.96%	19.61%	53.43%